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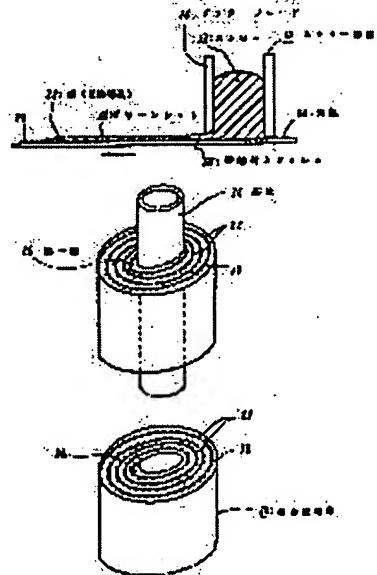
SATO TOYOSAKU

(54) MANUFACTURE OF COMPOSITE PIEZOELECTRIC ELEMENT

(57)Abstract:

PURPOSE: To form a compound piezoelectric element used for acoustic sensor, etc., simply and easily, by shaping a piezoelectric ceramics green sheet where a number of grooves extending in the direction of sheet width are arranged in the delivery direction of the sheet and by burning the green sheet after winding it around a core which will be burned out by burning.

CONSTITUTION: As a corrugated film 16 is delivered, slurry 12 is transferred onto a film 16 with the thickness thereof being controlled by a doctor blade 14, then becomes a green sheet 18. A number of stripe grooves 22 extending full widthwise of the green sheet 18 are formed with equal spaces along the longitudinal direction of the sheet. The green sheet 18 having PZT grooves thus formed is wound around a tubular or cylindrical core 24 as much as the desired number of turns. A material such as plastics or wax which burns out at burning is desirable for the core 24. The tubular form obtained in this way is burned at a proper temperature in PbO atmosphere to burn out the core 24. As a result, the burnt PZT, that is a composite piezoelectric 28 of PZT and air, having a number of holes through a tube longitudinally can be acquired.



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